

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Ding, Shou-wei
- (ii) TITLE OF INVENTION: DISEASE RESISTANT TRANSGENIC PLANTS
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Rothwell, Figg, Ernst & Kurz
 - (B) STREET: 555 Thirteenth Street, N.W., Suite 701 East
 - (C) CITY: Washington
 - (D) STATE: DC
 - (E) COUNTRY: USA
 - (F) ZIP: 20004
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Figg, Edward A.
 - (B) REGISTRATION NUMBER: 27,195
 - (C) REFERENCE/DOCKET NUMBER: 2248-108
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 202-783-6040
 - (B) TELEFAX: 202-783-6031

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Tomato aspermy virus
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: pTMV-30B
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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ACCGTTAAGA AGAAGAAGAA TGGCAAGCAT CGAGATCCCT CTACACGAGA TCATTCGAAA      60
GTTGGAACGG ATGAATCAAA AGAAACAAGC ACAGAGGAAA CGACACAAAC TGAACCGCAA      120
GGAGCGGGGT CACAAAAGTC CAAGTGAACA AAGGCGATCG GAGTTATGGC ACGCGCGTCA      180
AGTTGAACTT TCTGCCATTA ATTCGATAA TTCTTCAGAT GACCGTACCA CTCTGTGTCTG      240
CTTTGACACA TTTGGTTCCA AGTCTGATGC TATTTGTGAT CGCTCTGACT GGTGTCTCGA      300
TCAATGATTT CCGACCCCTC GTCGTCCG                                         328

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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "Synthetic DNA"
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Tomato aspermy virus
- (vii) IMMEDIATE SOURCE:
 - (B) CLONE: pTAVd2b1

(x1) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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ACCGTTAAGA AGAAGTAGAA TGTAAGCAT CGAGATCCCT CTACACGAGA TCATTCGAAA      60
GTTGGAACGG ATGAATCAAA AGAAACAAGC ACAGAGGAAA CGACACAAAC TGAACCGCAA      120
GGAGCGGGGT CACAAAAGTC CAAGTGAACA AAGGCGATCG GAGTTATGGC ACGCGCGTCA      180
AGTTGAACTT TCTGCCATTA ATTCGATAA TTCTTCAGAT GAGGGTACCA CTCTGTGTCTG      240
CTTTGACACA TTTGGTTCCA AGTCTGATGC TATTTGTGAT CGCTCTGACT GGTGTCTCGA      300
TCAATGATTT CCGACCCCTC GTCGTCCG                                         328

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(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "Synthetic DNA"
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (vi) ORIGINAL SOURCE:

PCT/SG99/00012

(A) ORGANISM: Tomato aspermy virus

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTAVd2b2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ACCGTTAAGA AGAAGTAGAA TGTAAGCAT CGAGATCCCT CTACACGAGA TCATTCGAAA	60
GTTGGAACGG ATGAATCAAA AGAAACAAGC ACAGAGGAAA CGACACAAAC TGAACCGCAA	120
GGAGCGGGGT CACAAAAGTC CAAGTGAATA AAGGTGATCG GAGTTATGGC ACGCGCGTCA	180
AGTTGAACTT TCTGCCATTA ATTCCGATAA TTCTTCAGAT GAGGGTACCA CTCTGTGTGC	240
CTTTGACACA TTTGGTTCCA ACTCTGATGC TATTTGTGAT CGCTCTGACT GGTGTCTCGA	300
TCAATGATTT CCGACCCTTC GTCGTCCG	328

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Cucumber mosaic virus

(vii) IMMEDIATE SOURCE:

(B) CLONE: pCMV2b

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GATCCATGGA TGTGTTGACA GTAGTGGTGT CGACCGCCGA CCTCCACTTA GCCAATTTGC	60
AGGAGGTGAA ACGTCGAAGA CGAAGGTCTC ACGTCAGAAA CCGGCGAGCG AGGGGTTACA	120
AAAGTCCCAG CGAGAGAGCG CGATCTATAG CGAGACTTTT CCAGATGTTA CCATTCCACG	180
GAGTAGATCC CGTGGATTGG TTTCCTGATG TCGTTCGCTC TCCGTCCGTT ACCAGCCTTG	240
TTTCTTATGA ATCTTTTGAT GATACTGATT GGTTCGCTGG TAACGAATGG GCCGAAGGGT	300
CGTTTTGATT TCCGACCCTT CGTCGTCCGA AGACGTTAAA CTACGCTCTC TTTATTGCGA	360
GTGCTGAGTT GGTAGTTTGC TCTAACTAT CTGAAGTCGC TAAATCCATT ACTGGTTGCG	420
AACGGGTTGT CCATCCAGCT TACGGCTAAA ATGGTCAGTC ATGCCCAAAA GGCATGCCGA	480
CACCCTACAG GGTGTGCGAG GTAC	504

Publ. No. 99/00012